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**Mobile laboratory hazardous waste management
specification**

移动实验室有害废物管理规范

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Mobile laboratory hazardous waste management specification

1 Scope

This Standard specifies the terms, classification, marking, storage, safety protection, operation and management requirements for mobile laboratory hazardous waste.

This Standard applies to the design, control and management of hazardous waste disposal in mobile laboratories used on land.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB 8978-2002, *Integrated wastewater discharge standard*

GB 13690-2009, *General rule for classification and hazard communication of chemicals*

GB 15562.2-1995, *Graphical signs for environmental protection. Solid waste storage (disposal) site*

GB 16297-1996, *Integrated emission standard of air pollutants*

GB 18484-2001, *Pollution control standard for hazardous wastes incineration*

GB 18597-2001, *Standard for pollution control on hazardous waste storage*

GB/T 24777, *Safety specification for physio-chemical and dangerous properties testing laboratory of chemicals*

GB/T 29479-2012, *General requirements of mobile laboratory*

HJ 421-2008, *Standard of packaging bags, containers and warning symbols specific to medical waste*

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 29479-

Mixed substances such as excess samples, analysis products, consumed or damaged experimental supplies (such as glassware, gauze, inspection supplies, experimental equipment), residual or failed chemical reagents generated during the experiment.

5 Hazardous waste management requirements

5.1 General requirements

5.1.1 Mobile laboratories shall set up space and facilities for waste disposal.

5.1.2 All hazardous waste in the mobile laboratory shall be equipped with dedicated hazardous waste storage containers. Hazardous waste storage containers shall comply with the regulations on hazardous waste storage containers in Chapter 5 of GB 18597-2001.

5.1.3 The mobile laboratory shall be equipped with a device to fix the waste container to ensure that the waste storage container will not turn over when the mobile laboratory is started, stopped or bumped in an emergency.

5.2 Hazardous waste marks

Hazardous waste storage facilities shall be equipped with warning signs in accordance with the provisions of GB 15562.2-1995. Containers containing hazardous waste shall be marked and labeled in accordance with the regulations of GB 13690-2009.

5.3 Hazardous waste storage and disposal

Laboratory hazardous waste shall be disposed of in specially designed, dedicated and labeled containers for the disposal of hazardous waste. After the experiment is completed, it shall be promptly returned to the user for processing according to the requirements of GB 18484-2001, GB 18597-2001, GB/T 24777 and other relevant regulations.

NOTE: The user shall refer to the parent organization to which the mobile laboratory belongs.

5.3.1 Radioactive hazardous waste

Radioactive hazardous waste shall be classified according to material and collected in packaging bags with radiation warning labels. The type of hazardous waste, nuclear type, surface radiation exposure intensity, handler and date shall be indicated on the packaging or container. Places where high-dose radioactive hazardous waste is placed shall be properly shielded. The disposal of radioactive hazardous waste shall be carried out in accordance with the relevant provisions of the "Regulations on the Safety Management of Radioactive Waste".

5.3.2 Infectious hazardous waste

Infectious hazardous wastes are stored as follows:

- a) Infectious hazardous waste shall be stored in packaging bags specified in HJ 421-2008 (based on the principle of non-penetration). Set signs of infectious hazardous waste;
- b) If infectious hazardous waste is stored at room temperature, the storage time is limited to 1 day. If refrigerated below 5°C, the limit is 7 days. For more than 7 days, freeze below -18°C.

The disposal of infectious hazardous waste shall be carried out in accordance with the provisions of the "Technical Specifications for Centralized Disposal of Medical Waste" (Trial).

5.3.3 Laboratory waste liquid

Laboratory waste liquids shall be mixed in storage barrels according to classification. Waste liquid storage containers shall be divided into inorganic waste liquid storage containers and organic waste liquid storage containers according to the mutual solubility of the container material and waste liquid. Inorganic waste liquid storage containers shall be made of plastic material. Organic waste liquid storage containers shall be made of stainless steel. Laboratory waste shall be disposed of appropriately. Discharge after meeting the requirements of GB 8978-2002.

5.3.4 Laboratory waste gas

Experiments that produce a small number of toxic gases shall be conducted in a fume hood. A small amount of poisonous gas will be discharged to the outdoors through exhaust equipment. The waste gas can be technically treated if necessary. Discharge after meeting the requirements of GB 16297-1996.

5.3.5 Laboratory solid hazardous waste

Laboratory solid hazardous waste shall be stored in corrosive containers and non-corrosive containers respectively. Sharps (including needles, knives, metal, glass, etc.) shall be disposed of directly in a puncture-resistant container.

5.4 Safety protection for hazardous waste storage

5.4.1 All leaks cleaned up from hazardous waste storage facilities will be treated as hazardous waste.

5.4.2 Hazardous wastes that are explosive, flammable and emit toxic gases under normal temperature and pressure must be pre-treated. Store them after making them stable; otherwise, store them as explosive or flammable dangerous goods.

5.4.3 Solid hazardous waste that does not hydrolyze or volatilize under normal temperature and pressure can be stacked separately in storage facilities.

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